

## PATENT CLAIMS

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1. Use of melatonin and/or of a chemically modified derivative thereof for making pharmaceutical preparations for the regulation of insulin release by influencing the  $\beta$ -cell of the pancreatic islets through a melatonin-specific receptor.
  2. Use of melatonin and/or of a chemically modified derivative thereof according to Claim 1, characterized in that the regulating action consists of inhibiting insulin release.
  3. Use according to Claim 1 for treating hyperinsulinemia.
  4. Use according to at least <sup>claim 1</sup> ~~one of Claims 1 to 3~~, characterized in that the pharmaceutical preparation is made in the form of tablets, capsules, coated tablets, transdermal therapy systems, ampules, suppositories, gels, ointments, implants or buccally administered systems.

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